



ATTACHMENT A

Clean Replacement Paragraphs

At the following locations, replace the previously provided paragraph(s) with the following clean paragraph(s).

Page 5, lines 4-20.

Figure 2 is a perspective view of a preferred embodiment of the overall flow measurement system of the invention, showing the system in use;

Figure 3 is a side view of the preferred embodiment of the continuous flow measurement system of the invention, showing the common housing; and

Figure 4 is a transverse cross-sectional view of the embodiment of Figure 2.

DESCRIPTION OF THE PREFERRED EMBODIMENTS

Referring to Figures 1 to 4, there is shown a continuous flow measurement system in accordance with a preferred embodiment of the invention. The measurement system, which is generally denoted 10, includes a display device 12, a central processing unit (CPU) 14, and a water-level sensor 16 housed within a housing unit 18.

The water-level sensor 16, the CPU 14, and the display device 12 cooperate to measure, calculate and display the total water flow. In general, as shown in Figure 2, the device 10 (including the water-level sensor 16) is positioned relative to a measurement structure such as a flume or weir, indicated schematically at F, so as to measure the open channel head, h_a , of a channel indicated at C, and the output of the water-level sensor 16 is connected to the CPU 14 which uses measurements from the water-level sensor 16 to determine the total flow, T_f . The CPU 14 is connected to the display device 12 and transmits total flow, T_f , measurements for display by device 12.

As shown in Figures 3 and 4, the water-level sensor 16 is mounted in a downwardly depending member 20 which forms part of housing 18 and which is secured to the bottom of the base portion 18b of housing 18 by a screw threaded mounting element 22. The water-level sensor 16 comprises an ultrasonic sensor, although other suitable water level sensors can be used in some applications.